KINO-LINEAR™

USER MANUAL

Schneider OPTICS

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WELCOME

Congratulations on your purchase of a Schneider Optics, Inc. Kino-Linear™ anamorphic system. This system is composed of the finest optical and mechanical components available. The Cine-Digitar Anamorphic lens is of commercial grade and should last indefinitely provided that it is used within reasonable parameters of temperature and shock. The mechanical assemblies within the Kino-Linear™ lens mover are designed for the demanding duty cycle of a professional screening room and have been tested to simulate in excess of 10 years use.

Installation by a qualified professional is recommended for best results.

INSIDE THE BOX

The following items are included in the Schneider Optics Kino-Linear™ packaging:

A. Kino-Linear™ Motorized Lens Mechanism
  A1. Lens Holder
  A2. Stage
B. Power Supply (12-volt output, 110-240 volt input)
C. Three Power Cord Types (US, UK, EU)
D. 12-Volt Trigger Cable (3.5mm Phono Type, Mono, 3M, Male-Male)
E. - Lens Retaining Ring
  - Two Retaining Ring Screws (M3x6mm, Phillips head)
  - Four Stage Lock Screws (M4x12)
  - Four M4 T-Nuts (Extra)

Note: A Cine-Digitar Anamorphic lens is required to use the Kino-Linear™ and must be purchased separately.

ATTACHMENT OF LENS TO KINO-LINEAR™ MECHANISM

Illustration #1 - Rear View of Kino-Linear™ with Lens Installed

Illustration #2 - Detail of Lens Retaining Ring

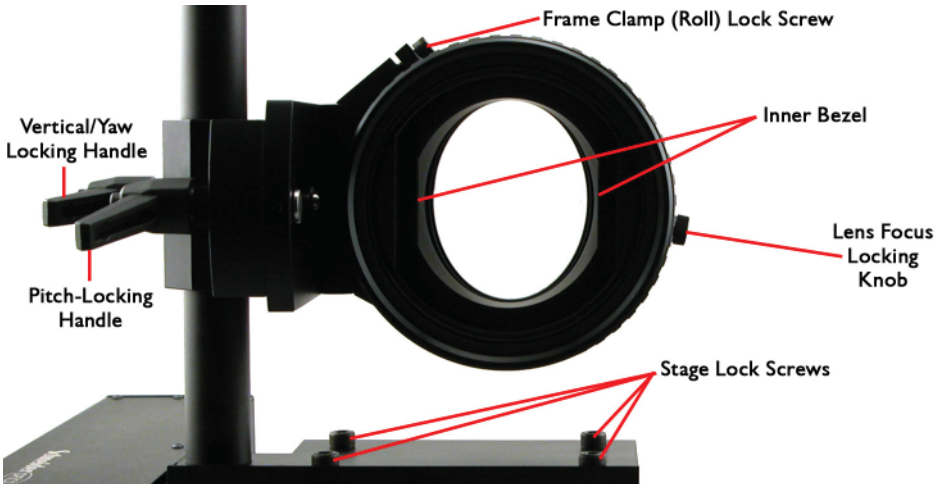

Illustration #3 - Front Detail

Tools Required:

1. Screwdriver: No. 1 Phillips
2. Allen Wrench: 3mm, 3.5mm, 4mm, 1/16", 5/32"

Assembly Instructions:

1. Remove Kino-Linear™ mechanism and Cine Digitar 1.33x anamorphic lens, if purchased together, from packaging. Inspect all components for damage that may have occurred during shipping.

2. Place Kino-Linear™ base on table with sliding stage facing up. Attach lens holder to the stage using the four stage lock screws provided. Note that the frame clamp needs to be positioned toward the back of the Kino-Linear™ base. See *Illustration # 1*.

3. Insert lens into the frame clamp of the Kino-Linear™ as illustrated. The lens should seat firmly into the clamp. Further loosen the frame clamp lock screw if needed.
See *Illustration # 1*.

4. Insert the retaining ring into the frame clamp and tighten the two retaining ring screws.
See *Illustration #2*.

5. Align the lens, rotating it until the flat sides of the inner bezel are vertical. Tighten the frame clamp screw. See *Illustration #3*.

6. Mount safety lanyard to projector mount securely for safety.

ATTACHMENT OF KINO-LINEAR™ TO CHIEF® CEILING MOUNT

Accessories Needed:

1. Chief MFG, CMS Column, or 1.5" NPT pipe of suitable Length. (Chief CMS™)
2. Chief MFG, RPA LCD/DLP Universal Ceiling Mount. (Chief RPA™)
3. Chief MFG, SLBU/SLMU Universal Interface Bracket, or custom interface bracket (not shown) for your specific projector.
4. Chief MFG, PAN-2 Panamorph Lens Support. (Chief PAN-2™)
5. Schneider Optics, Kino-Linear / PAN-2 Bracket (#54-018713).

Assembly Instructions:

1. Install the Chief CMS™ Column and Chief RPA™ Universal Ceiling Mount as instructed in Chief manual.

2. Attach the Chief PAN-2™ lens support to Chief RPA™ Universal Ceiling Mount as instructed in Chief manual.

3. Replace the 90-degree adapter supplied with the Chief PAN-2 lens support with the Schneider PAN-2 bracket. See *Illustration #7 & 9*.

4. Mount projector interface bracket (universal/ custom) to the projector. Then place entire assembly into the Chief RPA™ Universal Ceiling Mount.

5. Attach the rear horizontal slot of the Kino-Linear™ to the horizontal slots of the adapter plate using the supplied "T-Nuts." See *Illustration #11*.

"RPA" and "PAN-2" are trademarks of Chief Manufacturing.

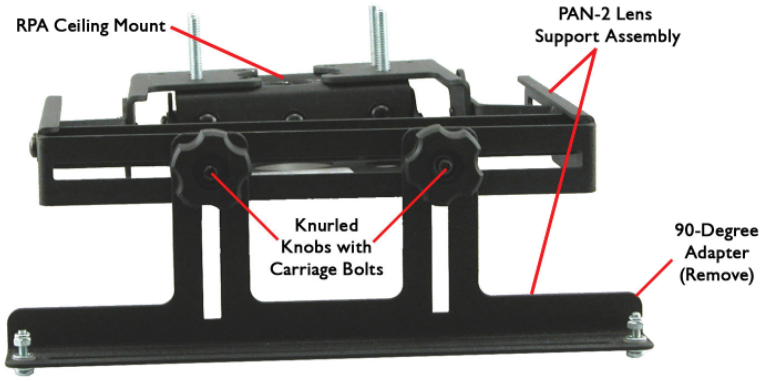

Illustration #8 - Chief PAN-2 Lens Support

Illustration #9 - Schneider Kino-Linear/PAN-2 Bracket

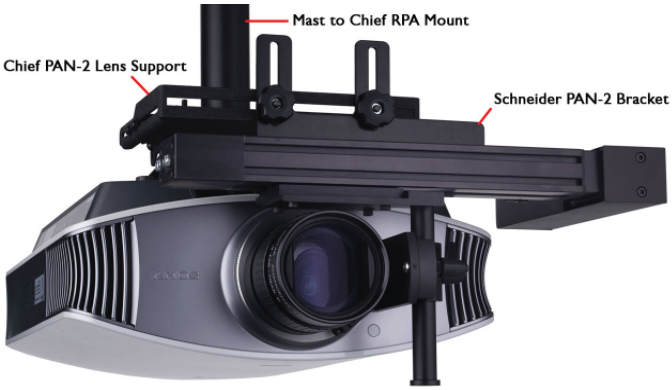

Illustration #10 - Chief Mount

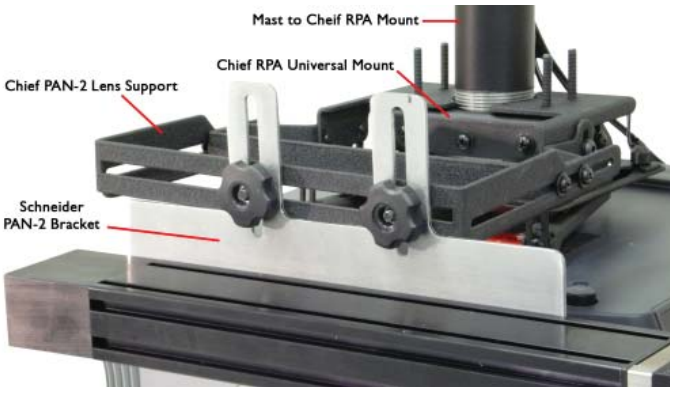

Illustration #11 - Detail of Chief Mount

ELECTRICAL CONNECTIONS

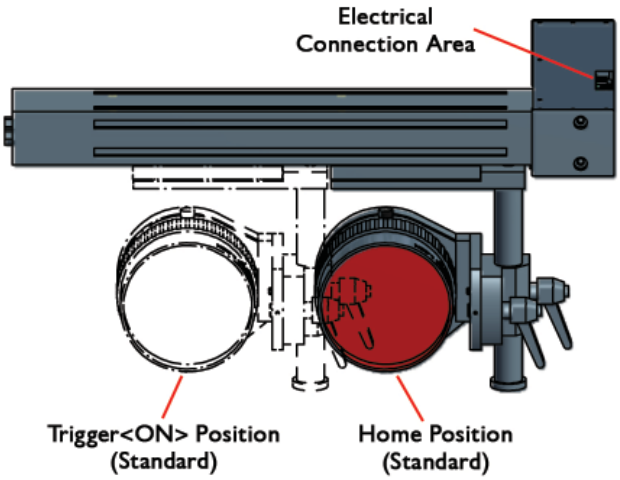

Illustration #4 - Standard Lens Movement

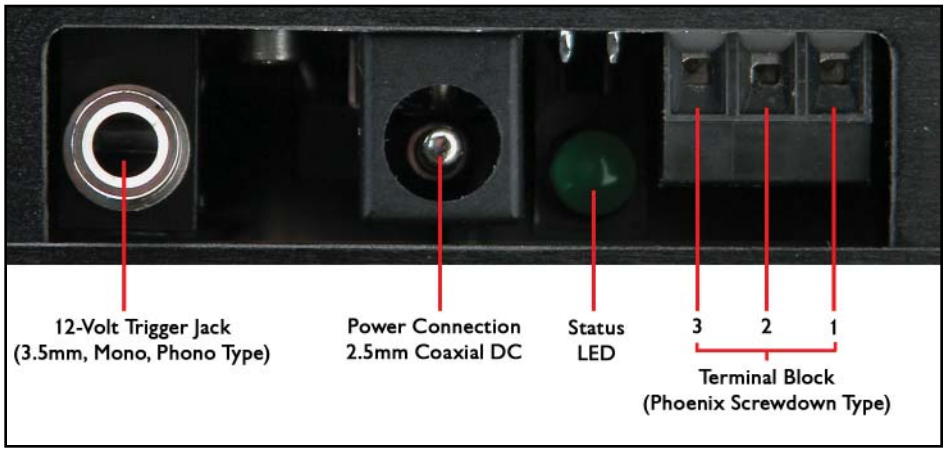

Illustration #5 -Detail of Electrical Connection Area

1. After the Kino-Linear™ unit is roughly aligned with the projector, select the appropriate power cord (US, UK, EU) for your location, and connect the power supply to the unit and electrical outlet. A solid green LED indicates the unit is functional. See Illustration #5.

2. Connect trigger cable to the Kino-Linear™ unit from an appropriate source.

Note: A 12 volt trigger source will move lens to the opposite side of slide.
See Illustration #4.

Note: The trigger connector polarity must be positive (+) for plug tip and negative (-) for plug body.

3. As an alternative trigger method, the Kino-Linear™ can also be controlled via simple contact closure without a 12-volt trigger. Use a wire to connect terminal 1 to 2. This will move lens to the opposite side of slide, similar to using the 12-volt trigger.

4. To gain access to the terminal block, only the motor cover needs to be removed. Unscrew the six motor cover screws with 1/16" allen wrench, and carefully pull back cover. See Illustration #13.

RHP(REVERSE HOME POSITION) UNITS

1. The RHP unit allows installer to have the home position on the opposite end of the slide in comparison to the standard Kino-Linear™ unit.
See Illustration #7.

2. The RHP unit can be identified by the engraving next to the serial number.
See Illustration #6.

Illustration #6 - RHP Unit Identification

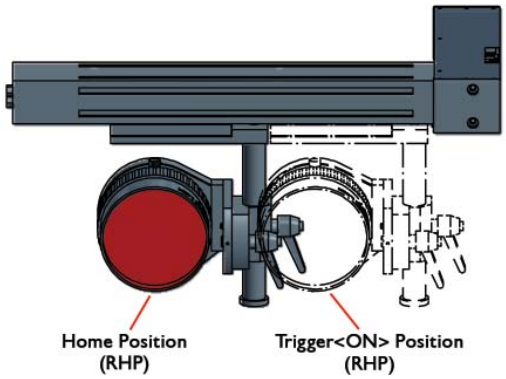

Illustration #7 - RHP Lens Movement

ADJUSTING THE ANAMORPHIC IMAGE

1. If focusing projector for the first time, follow projector manufacture instructions for setting up image.

2. <Important> Use the adjustments on the Chief RPA™ Universal Ceiling Mount as mush as possible to center image. Internal projector image adjustments should be centered as mush as possible for proper alignment to the anamorphic.

3. Deploy the anamorphic lens into the projector light path using the controller (Trigger ON), checking to assure that no part of the lens or cradle contacts any part of the projector. Move lens away fro projector if needed by adjusting stage lock screws. Observe image using the projector test grid pattern.

4. If you see vertical "vignette" distortion on top or bottom, adjust the height of the anamorphic lens. Use the vertical/Yaw lock handle.

5. If you see left or right side "vignette" distortion, adjust by repositioning the Kino-Linear™ on the Schneider PAN-2 bracket left or right.

6. If you see "trapezoidal", "barrel", or "pin-cushion" distortion, adjust the pitch lock handle and the vertical/yaw lock handle.

7. If you see "parallelogram" distortion and stretched corners, adjust lens rotation (roll). See *Illustration #12*.

8. If the image requires focusing, loosen the lens focus knob on the Schneider Anamorphic lens to adjust.

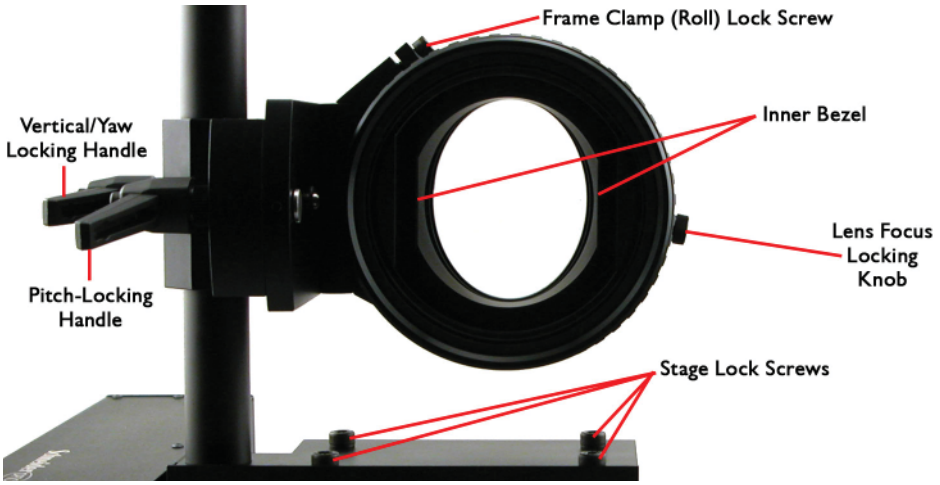

Illustration #12 -Front Detail

Illustration #13 -Detail of Lens Adjustments

OPTIONAL KINO-LINEAR™ MOUNTING PLATE

Illustration #14 - Projection Mounting Plate

1. This plate (#54-018714) replaces the Chief MFG Pan 2 Panamorph Lens Support and the Schneider Optics Kino-Linear / Pan 2 Bracket (#54-018713).

2. Attach the projector plate to the special mounting holes (two places) on the projector. The 90-degree lip should be pointing up towards the ceiling . This plate is pre-drilled to fit the following projectors: Sony VPL-VW50, JVC DLA-HD10K, Panasonic PTAE-10900U, and JVC DLA-RS1.

The plate can be drilled by the integrator to fit additional projectors.

3. The locking "T-Nuts" should be oriented forward to align with the slot on the rear of the Kino-Linear™ lens mechanism. The knurled gripping edge of the nuts should face rearward. See *Illustration 14.*

4. The lens on the Kino-Linear™ will be in the home position when power is supplied to unit. Position the Kino-Linear™ in front of the projector lens and align the "T-Nuts" on the mounting plate with the slot on the Kino-Linear™. Slide the Kino-Linear™ sideways until the Schneider anamorphic lens is directly in front of the projector lens. Tighten the "T-Nuts" until the entire assembly is secure. See *Illustration #10.*

5. If attaching a JVC DLA-RS1 or RS2 projector, please refer to the supplemental instructions below regarding the projector feet.

USE WITH JVC DLA-RS1&2 PROJECTORS

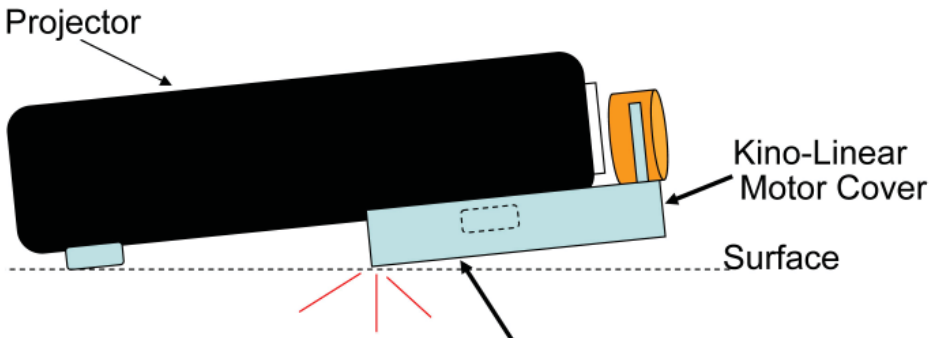

Illustration #15 - Contact Problem with JVC DLA-RS1&2 Projectors

When using the Schneider Optics Kino-Linear™ with the JVC DLA-RS1 or RS2 projectors, the standard bolts in the projector feet may not be tall enough to avoid contact between the Kino-Linear™ motor cover and the surface.

To prevent any potential damage from this contact, we recommend that you use the 50mm replacement bolts provided with your mounting plate to increase the clearance space.

ABOUT SCHNEIDER

Schneider Optics is the U.S. subsidiary of the world-renowned German optical manufacturer, Schneider-Kreuznach. Schneider has been producing the highest quality optics on the market for over 90 years, offering solutions for large-format photography, photo enlarging, motion picture projection, optical filtration, and industrial applications. In 2000, Schneider Optics acquired Century Precision Optics, adding its over 50 years experience manufacturing superior attachments for film and video.

Schneider Optics has offices in Hauppauge, NY and Van Nuys, CA and a network of hundreds of dealers around the globe, ready to assist you with any of your imaging needs.

Joseph Schneider founded the company in 1913 in Bad Kreuznach, Germany. Since that time the Schneider factory has been constantly modernized, always remaining state-of-the-art. The factory is fully compliant with ISO 9001 standards. Its U.S. subsidiary, Schneider Optics, was founded in 1972.

Century Optics first opened its doors in North Hollywood, CA in 1948, and quickly gained a reputation for expert lens repair, custom modification and intelligent innovation. In the early 80's Century began creating what has become the most extensive array of ultra-high quality video lens accessories available anywhere.

Separately the two companies were leaders in their respective spheres of the optical world—both having been awarded Technical Achievement Awards from the Academy of Motion Picture Arts and Sciences (Schneider in 2005, 2001, 1978 and 1976; Century in 1992). Together they are the ultimate solution to all your optical needs.

Schneider Cinema Projection Lens technology has won four Technical Achievement Awards from the Academy of Motion Picture Arts and Sciences

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9010-0050 Rev 1.31